

L 9828-66 EMT(h)/ENA(h)

ACC NR: AP6003970

SOURCE CODE: UR/0104/65/000/005/0093/0093

AUTHOR: Sarkisov, M. A.; Rokotyan, S. S.; Uspenskiy, B. S.; Sharov, A. N.;
Zhulin, I. V.; Fedoseyev, A. M.; Korolev, M. A.; Khevfits, M. E.; Yermolenko, V. M.;
Petrov, S. Ya.; Azar'yev, D. I.; Krikunchik, A. B.; Polyakov, I. P.; Sazonov, V. I.;
Khvoshchinskaya, Z. G.; Kartsev, V. L.; Smelyanskaya, B. Ya.; Kozhin, A. N.;
Losev, S. B.; Dorodnova, T. N.; Rubinchik, V. A.; Smirnov, E. P.; Rudman, A. A.

ORG: none

TITLE: Abram Borisovich Chernin

SOURCE: Elektricheskii stantsii, no. 5, 1965, 93

TOPIC TAGS: electric engineering, electric engineering personnel

ABSTRACT: An engineer since 1929, A. B. Chernin has worked for years in developing new techniques and equipment for relay protection of electric power systems. In this 60th birthday tribute, he is credited with leading the group which produced the directives on relay protection, contributing to the development of a method for calculating transient processes in long distance 400-500 kv power transmission lines and with aiding in planning of the electric portions of power stations, substations and power systems. The results of his engineering and scientific work have been published 46 times, he is a doctor of technical sciences (since 1963), and has taught for 30 years at the Moscow Power Institute. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

HW
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B

ALEKSEYENKO, G.V.; BORISENKO, N.I.; VOYEVODIN, I.D.; DROZDOV, N.G.; KRAYZ, A.G.;
MAN'KIN, E.A.; MAYORETS, A.I.; NEKRASOV, A.M.; NAYASHKOV, I.S.; PAVLENKO,
A.S.; ROKOTYAN, S.S.; SOBOLEV, A.A.; SYROMYATNIKOV, I.A.; SAPOZHNIKOV,
A.V.; SARKISOV, M.A.; CHERNICHKIN, D.S.; CHERTIN, A.M.

Samuil Isaakovich Rabinovich, 1905; on his 60th birthday. Elektri-
chestvo no.6:90 Je '65. (MIRA 18:7)

NEPOROZHNIY, P.S.; SAVINYKH, A.P.; SAPOZHNIKOV, F.V.; SERDYUKOV, N.P.;
ACHKASOV, D.I.; BURGS DORF, V.V.; NEMOV, N.P.; SYROMYATNIKOV, I.A.;
KNYAZEVSKIY, B.A.; ROKOTYAN, S.S.; STEKLOV, V.Yu.; FEDOSEYEV, A.M.;
GRUDINSKIY, P.S.; KHOMYAKOV, M.V.; VENIKOV, V.A.; CHERNOBROVOV, N.V.;
MEL'NIKOV, N.A.; BERSHADSKIY, I.S.

Aleksandr Dmitrievich Romanov, 1905; on his 60th birthday. Elek.
sta. 36 no.11:94 N '65. (MIRA 18:10)

ROKOTYAN, S.S., kand. tekhn. nauk

Principal trends in the development of electric power
distribution networks. Izv. vys. ucheb. zav.; energ. 8
no.11:101-105 N '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy
institut "Energoset'proyekt."

ROKOTYAN, S.S.

Width of clearings for 6-10 kv. overhead power transmission lines.
Energetik. 13 no.9:41 S '65. (MIRA 18:9)

1. Glavnyy inzhener Vsesoyuznogo gosudarstvennogo proyektno-izyskatel'skogo i nauchno-issledovatel'skogo instituta energeticheskikh sistem i elektrossetey.

L 29:66-66

ACC NR: AP6018890

SOURCE CODE: UR/0104/65/000/011/0004/00947

AUTHOR: Kaporozhnyi, P. S.; Savinykh, A. P.; Sapozhnikov, F. V.; Serdyukov, N. P.;
Achkanov, D. I.; Burgsdorf, V. V.; Homov, N. P.; Syromyatnikov, I. A.; Knyazovskiy,
B. A.; Rokotyan, S. S.; Steklov, V. Yu.; Fedoseyev, A. M.; Grudinskiy, P. S.;
Khomyakov, M. V.; Venikov, V. A.; Chernobrovov, N. V.; Mel'nikov, N. A.;
Bershadskiy, L. S.

ORG: none

TITLE: Honoring the 60th birthday of Aleksandr Dmitriyevich Romanov

SOURCE: Elektricheskaya stantsiya, no. 11, 1965, 94

TOPIC TAGS: electric power plant, industrial personnel

ABSTRACT: In July 1965 A. D. Romanov celebrated his 60th birthday and the 35th anniversary of his active life as a major designer, operator, and builder of electric power stations. On his graduation in 1927 from the Moscow College of Engineering, Aleksandr Dmitriyevich joined the Mosenergo Moscow Power System where he steadily rose through the ranks until he became Deputy Chief Engineer, while at the same time participating in the design and practical introduction of 500-kV electric transmission lines running from Moscow to Volzhskaya Hydroelectric Power Station and from Kuybyshev to the Urals. Since 1959 A. D. Romanov has been Chief Engineer at the Glavvostojelektrosostroy Main Administration for Power Grid Construction in Eastern USSR of the Cord 1/2

ACC NR: AP6018890

State Production Committee for Energetics and Electrification USSR. Along with his active work, since 1930 A. D. Romanov has been teaching courses in Power Networks and Systems as well as in Power Stations and Substations at the Moscow Correspondence Institute of Energetics and, later, at the All-Union Correspondence Institute of Energetics, and, in this capacity, has trained new cadres of power engineers. In 1957 the title of Assistant Professor was conferred on him and in 1963, the title of Candidate of Technical Sciences. He has published more than 40 scientific and technical articles on power engineering and construction and he is a member of the editorial boards of the periodic anthologies Energeticheskoye Stroitel'stvo (Power Construction) and Energeticheskoye Stroitel'stvo za Rubezhom (Power Construction Abroad). He has been a Party member since 1932 and is the bearer of the Order of Labor Red Banner as well as of various medals. Best wishes for further creative work are extended to him. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Card 2/2 CC

L 22594-60 EWT(d)/LWP(k)/EWP(1)

ACC NR: AP6012999

SOURCE CODE: UR/0105/65/000/006/0090/0090

AUTHOR: Alekseyenko, G. V.; Borisenko, N. I.; Voyevodin, I. D.; Drozdov, N. G.; Krayz, A. G.; Man'kin, E. A.; Mayorets, A. I.; Nekrasov, A. M.; Nayashkov, I. S.; Pavlenko, A. S.; Rokotyan, S. S.; Sobolev, A. A.; Syromyatnikov, I. A.; Sapozhnikov, A. V.; Sarkisov, M. A.; Chernichkin, D. S.; Chertin, A. M.

ORG: none

TITLE: S. I. Rabinovich (on the occasion of his 60th birthday)

SOURCE: Elektrichestvo, no. 6, 1965, 90

TOPIC TAGS: electric engineering personnel, electric transformer, hydroelectric power plant

ABSTRACT: The chief specialist of transformer building of the Gosplan (State Planning Commission) USSR, Samuil Isaakovich Rabinovich was born in 1905 in the town of Borisoglebsk of the Voronezh Oblast'. From his student years at the Gosudarstvennyy elektromashinostroitel'nyy institut (State Machine-Building Institute) he already showed interest for power transformers. In the early thirties he designed the first types of domestic Soviet 110 and 220 kV transformers; in 1939 he became the chief designer of the Moskovskiy transformatornyy zavod (Moscow Transformer factory). In 1946, he conducted the design and construction of lightning-resistant transformers; during 1949-1954,

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UDC: 621.314(092)

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ACC NR: AP6012999

he headed the design of the 400 kV transformer equipment for the Volzhskaya hydroelectric power station - Moscow power line; his subsequent work on the 500 kV equipment earned him the Lenin prize. From 1960, he has been working at the Gosplan USSR. He is also a member of the editorial board of the journal Elektrichestvo (Electricity). Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10, 09 / SUM DATE: none

Card 2/2 *la*

ACC NR: AF7007595

SOURCE CODE: UR/0104/66/000/008/0095/0096

26

AUTHOR: Chuprakov, N. M.; Borovoy, A. A.; Postnikov, N. A.; Malychev, A. A.;
Magidson, E. M.; Sin'chugov, F. I.; Zeyl'dzon, Ye. D.; Barchaninov, G. S.;
Yermolenko, V. M.; Vasil'yev, A. A.; Sokolov, N. I.; Ul'yanov, A. S.;
Fedoseyev, A. M.; Sarkisov, M. A.; Rokotyan, S. S.; Azar'yev, D. I.; Arson,
G. S.; Dubinskiy, L. A.; Zhulin, I. V.; Kolpakova, A. I.; Antoshin, N. N.
Krikunchik, A. D.; Kuchkin, M. D.; Preobrazhenskiy, N. Ye.; Reut, M. A.;
Khayfits, M. E.; Sharov, A. N.; Yakub, Yu. A.; Gorbunov, N. I.; Shurmukhin,
V. A.; Beschinskiy, A. A.

ORG: none

TITLE: Boris Sergeyovich Uspenskiy (on his 60th birthday)

SOURCE: Elektricheskiye stantsii, no. 8, 1966, 95-96

TOPIC TAGS: hydroelectric power plant, electric engineering personnel.

SUB CODE: 10

ABSTRACT: B. S. Uspenskiy was born in June 1906. He graduated from
the State Electric Machine Building Institute in 1928 as an electric
installation engineer. He worked in the State Electro-Technical Trust
for four years, then in the All-Union ElectroTechnical Union, where he
planned power construction units. Plans which he made up at that time
for the electrical portion of electrical stations and sub-stations are
still being used. He was involved in planning and installation of the
electrical portion of hydro-electric power stations and powerful pumping
stations in the Moscow-Volga Canal. During the war, he was in charge in
installation of the Krasnogorskaya Heat and Electric Power Station, the
planning of the Urals Hydro-Electric Power Station and other projects. He

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L 11550-66 EWT(1)/EWA(h).

ACC NR: AP6005025

SOURCE CODE: UR/0105/65/000/001/0007/0014

AUTHOR: Burgsdorf, V. V.; Rokotyan, S. S.; Sherentsis, A. N.

ORG: none

TITLE: EHV transmission lines in the Soviet Union

SOURCE: Elektrichestvo, no. 1, 1965, 7-14

TOPIC TAGS: high voltage line, electric power engineering, electric power transmission

ABSTRACT: Progress in the construction of 500 kv lines in the USSR is reviewed (of the roughly 10,000 km planned for 1959-1965, 8,000 km have been completed by Dec 64, including 900 km operating temporarily at 220 kv). The immediate need for 750 kv lines up to 1,500 km long, with power capabilities of 2.5 to 3 Gw, is reported (construction of an experimental-commercial 750 kv line, from Konakovo GRES to Moscow, was begun in 1964). Soviet research results in EHV transmission are cited to disprove foreign authors (e.g. ABETTI, AILLERET or JANCKE) who claim that the 1957 decision to convert to 500 kv the 400 kv lines built or designed in the 1950's was possible because of considerable reserves in the designed insulation. These results include: 1) Low factors of assurance in relation to the average actual voltage (factors of 3.0, 2.5 and 2.1 for 400, 500 and 750 kv, respectively). 2) Improvements in regulation of system-generated overvoltages (e.g. connecting the shunt reactors directly to the line).

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UDC: 621.31

L 11550-66

ACC NR: AP6005025

3) Better lightning protection (the economy of ground wires; only angles of 20 to 30° offer reliable protection). 4) Economical use of conductors (recommended current densities for the 500 kv three-phase system with three 400, 500 or 600 mm² ASO-brand conductors per phase are 0.6-0.8 and 0.8-1.0 amp/mm² for European USSR and Siberia, respectively, and the maximum electric field intensity is generally 10-15% higher than abroad; the 750 kv three-phase system will have four 600 mm² ASO conductors per phase). 5) Prefabricated supporting towers (a dimensional diagram is presented of the steel tower for 750 kv lines, similar to the reinforced-concrete tower for 500 kv lines). Orig. art. has: 6 figures and 7 tables. [JPRS]

SUB CODE: 09 / SUEN DATE: 08Feb64 / ORIG REF: 006 / OTH REF: 003

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Card 2/2

Document No. 100-100000, S.S.; 100-100000, A.S.

High voltage transmission lines in the U.S.S.R. (Kiev: Gostekhizdat, 1974). (CIA 13:7)

TSELIKOV, A.I., akademik; MEYEROVICH, I.M., kand. tekhn. nauk; GORELIK,
V.S., inzh.; ROKOTYAN, S.Ye., inzh.

Relation between unit power consumption and the metal pressure
on the rolls. Stal' 25 no.12:1101-1102 D '65.

(MIRA 18:12)

ROKOTYAN, V., inzh.

Electronic treasure detector. Tekh.mol. 28 no.7:34-35 '60.
(MIRA 13:8)

1. Vypusknik Fizicheskogo fakul'teta Moskovskogo gosudarst-
vennogo universiteta.
(Prospecting--Geophysical methods)

S/020/60/133/01/18/070
B014/B011

AUTHORS: Kadomtsev, B. B., Rokotyan, V. Ye.

TITLE: The Stability of a Plasma in the Field of a Magnetic Dipole

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 1,
pp. 68-70

TEXT: The surface of the Earth with its relatively near ionosphere is an ideal electric conductor, and therefore, the tangential component of the electric field is equal to zero. This leads to a forbiddenness of convective instability, i.e., to a stabilization of plasma. This effect is investigated with the aid of an energy principle according to which it is necessary and sufficient for the stability that the potential energy V of the small oscillations be positive. The general expression (2) for the potential energy is transformed into (5) by proceeding from the assumption of the Earth being an ideal conductor. (6) is obtained as a minimum of (5), and with the variation of (6) the authors arrive at the same problem as arises in quantum mechanics on the motion of particles in a potential well U . Thus, the condition desired for stability is derived from

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KADOMTSEV, B.B.; ROKOTYAN, V.Ye.

Stability of the plasma in the field of a magnetic dipole.
Dokl.AN SSSR 133 no.1:68-70 J1 '60. (MIRA 13:7)
(Plasma (Ionized gases))

TRETYAKOV, Andrey Vladimirovich; TROFINOV, Georgiy Konstantinovich;
ZYUZIN, Vladimir Ivanovich; ROKOTYAN, Ye.S., prof., doktor
tekhn. nauk, retsenent

[Mechanical properties of metals and alloys during their
working by pressure] Mekhanicheskie svoistva metallov i
splavov pri obrabotka davleniem. Moskva, Metallurgiya,
1964. 221 p. (MIRA 18:1)

ROKOTYAN, Ye. S.:

Rokotyan, Ye. S.: "The force effects in reduction and sheet-rolling stands." Published by the Acad Sci USSR. Inst of Machine Science. Moscow, 1956. (Dissertation for the Degree of Doctor in Technical Science)

SO: Knishnaya Letenka, No 27, 1956. Moscow. Pages 94-109; 111.

ROKOTYAN, Ye. S.

"Relationship of the Limits of Yield to the Intensity of Deformation in Cold Rolling of Metals," Stal', No.9, 1948.

Cand. Tech. Sci., TsNIITMash

ROKOSZYAN, Yevgeniy Sergeyevich

Cand. Tech. Sci.

"High-Speed Cold Rolling Equipment," Stal', No.8, 1948

Centr.Sci.Res.Inst. Technology and Machine Building

1. ROKOTYAN, YE. S.
2. USSR 600
4. Rolling-Mill Machinery
7. Study of power interaction in sheet metal rolling mills, Vest. mash, 33, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ROKOTYAN, Ye.S.

USSR/ Engineering - Machine tools

Card 1/1 Pub. 11/8 - 3/25

Authors : Rokotyan, E. S.

Title : ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
The effect of forces on a cogging mill

Periodical : Vest. mash. 1, 25-29, Jan 1955

Abstract : Operational tests were conducted to determine the influence of various forces on the operation of the "type 1000" cogging mill. Methods of calculating friction and stress coefficients, torque and dynamic moments, and the magnitude of resistance to deformation are given, together with technical data on types of specimens used in the above mentioned tests. Three USSR references (1932-1953). Graphs; table.

Institution :

Submitted :

SOV/130-59-2-8/17

AUTHOR: Tselikov, A.I., Corresponding member of AS USSR,
Rokotyan, Ye.S., Doctor of technical sciences,
Shor, E.R., Candidate of technical sciences

TITLE: New Rolling Mills (Novyye prokatnyye stany)

PERIODICAL: Metallurg, 1959, Nr 2, pp 21-25 (USSR)

ABSTRACT: It has been planned to increase the output of rolled iron and steel products to between 65 and 70 million tons per year by 1965 in the USSR, which represents an increase of 52 to 64% in comparison with the output for 1958. A large increase in the output of rolled non-ferrous metal products has also been planned, especially with reference to alloys of aluminium, magnesium, copper and titanium. These increases will be required mainly in connection with the production of sheet metal, tubes, formed sections, steel girders etc and will necessitate the construction of new rolling mills as well as improvement of many already in use, under the following headings:-

Sheet Rolling Mills

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New Rolling Mills

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sheet, 1.5 to 10 mm in thickness, are considered to be of greatest advantage in return for capital outlay and the construction of such mills will therefore receive the main attention during the next 10 to 15 years. These mills will weigh up to 18,000 tons complete and will be fitted with rolls having a barrel length of 1700 to 2100 mm. Each mill will roll up to 250 tons of sheet per hour (3.5 million tons per year) from slabs weighing up to 15.5 tons and the output speed of rolled sheet will be up to 15 m per sec. These basic specifications exceed the capacities of similar mills already in operation at home and abroad. New rolling mills for cold reduction of thin sheet have also been planned and will be of the modern 5 stand type, capable of reducing 1000 mm wide sheet from an original thickness of 1.8 to 4 mm to a finished thickness of 0.13 to 0.60 mm. The sheet will be rolled at a maximum output speed of 35 m per sec and will leave the mill in the form of coils, weighing up to 15 tons. The main units of these mills will be driven by motors with a total h.p. of 27,000. An electrolytic de-greasing plant capable of

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cleaning the sheet at a speed of 5 m per sec and continuous annealing furnaces will be provided behind each such mill. New 2 stand cold reduction mills are planned for increasing the tensile strength of sheet metal at an output speed of up to 32 m per sec and with a yearly output of about 700,000 tons, in the form of tin-plate and galvanised iron sheet, which will be processed at up to 7.5 and 15 m per sec respectively. New reversing mills are now being built, which will be equipped with coilers or roll feed tables, working within re-heating furnaces. The roughing stands of such mills will roll the strip to between 20 and 30 mm in thickness and the finishing stand will reduce the thickness to 1.5 mm. These mills will be made for rolling stainless or heat resisting steels and special alloys, which all require a narrow range of temperature during the rolling process. Much attention has been given to the development of special rolling mills incorporating a planetary action of 20 small diameter rollers, which are spaced equally around one support shaft and are capable of reducing the thickness of the

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New Rolling Mills

rolled bar by 95 to 98% at a single pass. The output speed of the rolled bar from such mills is slow and the main advantage lies in the reduced relative weight of the complete mill. Planetary mills differing from ones developed abroad will be built to give a more efficient performance and it is expected that continuous casting of steel will be possible in conjunction with the use of such mills.

Tube Rolling Mills

Tube rolling mills of more efficient design are planned for use on pre-formed tubes of large diameter, with seams which have been arc-welded or welded by means of electric heating. Mills (as shown in Fig 1 giving layout of mill for spiral welding of tubes up to 650 mm dia, in use at the Plant im. N'icha 1) coil unwinder; 2) roller leveller; 3) end shears; 4) butt welder; 5) pinch rolls; 6) edge trimmer; 7) edge shot blaster; 8) flash trimmer; 9) feed rollers; 10) tube former; 11) spiral seam welder; 12) tube cutter) have been built

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New Rolling Mills

in the USSR for the production of spiral welded thin walled tubes with large diameters up to 100 to 1 in proportion to thickness of wall and continuous rolling is possible owing to the use of butt-welded tubes. New mills for the continuous rolling of welded thin-walled tubes of small diameter will be built and will have output speeds of over 7 m per sec. It is expected that a planetary mill (as shown in Fig 2 giving layout of tube welding mill combined with planetary and reduction mills: 1) slab; 2) feed rollers; 3) tunnel furnace; 4) flying welder; 5) flash trimmer; 6) de-scaler; 7) pinch rolls; 8) planetary mill; 9) finishing stand; 10) rotary shears; 11) edge trimmer; 12) feed rollers; 13) induction furnace; 14) welding mill; 15) reduction mill; 16) pinch rolls; 17) flying shears; 18) conveyor rollers to finishing department) can be combined with a continuous tube rolling mill, which will have a welding speed of 2 m per sec and an output speed of 12 m per sec for the finished tube. This totals up to 250,000 tons per year. A demand for large quantities of high quality seamless tubes up to 100 mm diameter, and other

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New Rolling Mills

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sections, made from titanium, special heat resisting alloys and stainless steels, is foreseen in connection with the building of modern reactor plants and gas turbines. Planetary rolling mills (as shown in Fig 3, being planetary mill for cold rolling of tubes at the Moscow Tube Works) are suitable for this work and can produce tubes with thin walls. Such mills, of improved design, are also planned for the hot rolling of seamless tubes from 80 to over 160 mm dia. New mills (as shown in Fig 4 giving design of mill stand for cold rolling of tubes: 1) measuring plate; 2) roller; 3) feed stroke; 4) tube; 5) mandril) for the cold rolling of tubes, have been developed in the USSR. These are capable of rolling seamless tubes with very thin walls (under 0.01 of diameter size) from hard metals and alloys. A continuous mill with 10 reduction stands has been developed for similar work and is capable of cold rolling 25 to 40 mm dia tubes at an output speed of 3 m per sec or between 20 and 50 times faster than ordinary cold reduction mills.

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Rolling Mills for Profiled Sections with Thin Walls

A continuous rolling mill, containing 18 stands, has been planned for the production of profiled sections with thin walls. This mill is fed with square bars, 12 m long, which are re-heated and joined into a continuous strip, by means of a flying welder. The output speed at the final stand is up to 12 m per sec or equivalent to 350 tons of formed sections per hour and exceeds the output from similar existing mills, relatively to the heavier equipment of the latter.

Bending Mills for Profiled Sections

Among several new mills, planned for cold bending of profiled sections, is one which is fed with strip, measuring 1600 mm in width and 1 to 4 mm in thickness, supplied in coils weighing up to 10 tons. The mill consists of 20 stands, driven by two 280 kW motors working at 700 to 1400 rpm. The speed of profiling is between 0.75 and 3 m per sec and the use of this method, instead of hot rolling, is estimated to give a

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New Rolling Mills

saving of 15 to 35% in the consumption of steel. The output of profiled sections from such mills is planned to exceed 800,000 tons per year in the near future.

Rolling Mills for Thin Metal Tape

Owing to the expanding demand for large quantities of steel and special alloy tape between 0.2 and 0.001 mm in thickness, new multi-roller cold reduction mills (similar to the type with 20 working rollers shown in Fig 5 where the main stand is indicated at "a") will be built in the near future for rolling the following kinds and sizes of tape, from coils weighing 15 tons, at an output speed of 8 to 10 m per sec or about 125,000 tons yearly per mill:-

- 1) stainless steel tape, 0.1 mm thick by 1000 mm wide;
- 2) high carbon steel and hard alloy tape, 0.02 mm thick by 400 mm wide;
- 3) tape, 0.001 mm thick by 30 to 50 mm wide, made from alloys with special physical properties.

Card 8/10 The main action of the above mills and regulation of the

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New Rolling Mills

tape thickness will be fully automatic, in order to maintain the required accuracy. The use of such mills enables a saving of between 30 and 40% to be made in the weight of equipment, in comparison with 4 high multi-stand cold reduction mills and gives a higher output, since there is less need for intermediate annealing of the tape. In the near future, hard alloy rollers will be widely used to give greater rigidity and a longer working life between each regrinding operation.

Mills for Rolling of Repetition Circular Profiles and Formed Rotating Parts

A wide variety of manufactured parts may be produced more efficiently by means of rolling a required shape closely to the finished size. For this purpose, rolling mills which have a high output are already in use in the USSR and their number will be increased considerably in the near future for the production of parts such as:
(a) ball and roller crushers for cement mills (as shown in Fig 6); (b) formed hubs (similar to bicycle back

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New Rolling Mills

hub as shown in Fig 7); (c) shouldered rolls, railway wagon axles, loom spindles and other similar hollow or solid parts (by means of the 3 roller type mill as shown in Fig 8). Such mills have produced 400,000 wagon axles per year and have equalled the output of 10 forging hammers or 7 presses, whilst the consumption of metal required for the production of each axle was reduced by approximately 20%. Another advantage is in the saving of floor space. If, for example, 6700 sq m is necessary for the new type of mill, 15000 or 20,000 would be necessary for forging hammers or presses, with an equivalent output. In the near future, automatic production lines, incorporating the use of such mills, will be built in the USSR for the rolling and subsequent finishing of typical machine parts, as described above. There are 8 figures.

ASSOCIATION: TsNIITMASH

Card 10/10

ACC NR: AP7004811

SOURCE CODE: UR/0413/67/000/001/0169/0169

INVENTOR: Tselikov, A.M.; Shor, E.R.; Rokotyan, Ye.S.; Kruglikov, A.V.; Gurevich, A.Ye.

ORG: none

TITLE: Two or four-high mill for rolling variable-section sheets and strips. Class 7, No. 87892

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no.1, 1967, 169

TOPIC TAGS: metal rolling, ~~light alloy rolling, metal~~ rolling mill

ABSTRACT: This Author Certificate introduces a two or four-high mill for rolling one or two-way wedge-shaped sheets and strips from steel and light alloys by means of changing the working rolls' spacing. To increase rolling mill efficiency, a powerful automatic pressure device is used which ensures a constant relation between the rotation speed of the screw-down drives and the working rolls. [AZ]

SUB CODE: 13/ SUBM DATE: 11Mar49/ ATD PRESS: 5116

Card 1/1

UDC: none

SOKOLOV, Lev Dmitriyevich; GREBENIK, Viktor Mikhaylovich; TYLKIN, Mikhail Arkad'yevich; Primal uchastiye BAKLUSHIN, I.L.; SMIRNOVA, V.V., kand. tekhn. nauk, dots., retsenzent; ROKOTYAN, Ye.S., doktor tekhn. nauk, prof., retsenzent; MOROZOV, B.A., doktor tekhn. nauk, retsenzent

[Study of the equipment of rolling mills] Issledovanie prokatnogo oborudovaniia. Moskva, Metallurgiya, 1964. 487 p.
(MIRA 17:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. N.E. Bauman (for Smirnova).

ROKOTYAN, Ye.S., doktor tekhn.nauk, prof.; ZHUKOVICH-STOSHA, Ye.A.;
BOLOV'YEV, O.P.; LYAMIN, G.N.; SAPOZHNIKOV, A.Ya.; LIPUKHIN,
V.A.; KOGOS, A.M.; ISTOMIN, A.", retsenzent; KARPMAN, M.A.,
nauchn. red.; PODCHUFAROVA, S.I., red.; KOGAN, F.L., tekhn.
red.

[Modern rolling mills abroad] Sovremennye prokatnye stany
za rubezhom. Moskva, 1962. 419 p. (MIRA 16:8)

1. Moscow. Tsentral'nyy institut nauchno-tehnicheskoy in-
formatsii mashinostroyeniya.

(Rolling mills)

ROKOTYAN, Ye.S., doktor tekhn.nauk

Relation between unit energy consumption and metal pressure.
Stal' 22 no.10:924-925 0'62. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy
institut metallurgicheskogo mashinostroyeniya.
(Rolling mills)

BROVMAN, Mikhail Yakovlevich; LEVIT, Ye.I., red.izd-va; ~~ROMOTYAN~~
Ye.S., ~~red.~~ ~~ISL~~ YEVA, P.G., tekhn. red.

[Power parameters of continuous billet mills] Energosilovye pa-
rametry nepreryvnykh zagotovochnykh stanov. Moskva, Metal-
lurgizdat, 1962. 149 p. (MIRA 15:12)
(Rolling mills)

AZARENKO, B.S., kand. tekhn. nauk; AFANAS'YEV, V.D., kand. tekhn. nauk;
 BROVMAN, M.Ye., inzh.; VAVILOV, M.P., inzh.; VERNIK, A.B., inzh.;
 GOLUBKOV, K.A.; GUBKIN, S.I., akademik [deceased]; GUREVICH, A.Ye.,
 inzh.; DAVYDOV, V.I., kand. tekhn. nauk; DROED, V.G., inzh.;
 YERMOLAYEV, N.F., inzh.; ZHUKEVICH-STOSHA, Ye.A., inzh.; KIRILIN,
 N.M., kand. tekhn. nauk; KOVYNEV, M.V., inzh.; KOGOS, A.M., inzh.;
 KOROLEV, A.A., prof.; KUGAYENKO, M.Ye., inzh.; LASKIN, A.V., inzh.;
 LEVITANSKIY, B.A., inzh.; LUGOVSKIY, V.M., inzh.; MEYEROVICH, I.M.,
 kand. tekhn. nauk; OVCHAROV, M.S., inzh.; PASTERNAK, V.I., inzh.;
 PERLIN, I.L., doktor tekhn. nauk; POREDIN, I.S., kand. tekhn. nauk;
 ROKOTYAN, Ye.S., doktor tekhn. nauk; SAF'YAN, M.M., kand. tekhn.
 nauk; SMIRNOV, V.V., kand. tekhn. nauk; SMIRNOV, V.S.; SOKOLOVSKIY,
 O.P., inzh.; SOLOV'YEV, O.P., inzh.; SIDORKEVICH, M.A., inzh.;
 TRET'YAKOV, Ye.M., inzh.; TRISHEVSKIY, I.S., kand. tekhn. nauk;
 KHENKIN, G.N., inzh.; TSELIKOV, A.I.; GOROBINCHENKO, V.M., red.
 izd-va; GOLUBCHIK, R.M., red. izd-va; RYMOV, V.A., red. izd-va;
 DOBUZHINSKAYA, L.V., tekhn. red.

[Rolling; a handbook] Prokatnoe proizvodstvo; spravochnik. Pod
 red. E.S.Rokotiana. Moskva, Metallurgizdat. Vol.1. 1962. 743 p.
 (MIRA 15:4)

1. Akademiya nauk BSSR (for Gubkin). 2. Chlen-korrespondent Akademii
 nauk SSSR (for Smirnov, Tselikov).
 (Rolling (Metalwor))--Handbooks, manuals, etc.)

ROKOTYAN, Ye.S., doktor tekhn. nauk, red.; GONCHAROV, N.G., tekhn.
red.

[Rolling mills] Prokatnye stany. Pod red. E.S. Rokotiana. Mo-
skva, 1959-61. 2 v. (MIRA 15:10)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy
informatsii.

(Rolling mills)

BOYARSHINOV, M.I., prof.; KURDYUMOVA, V.A., dotsent; KUPRIN, M.M., dotsent;
SHTERNOV, M.M.: kand.tekhn.nauk; SHULAYEV, I.P., inzh.;
ROKOTYAN, Ye.S., prof., doktor tekhn.nauk

"Rolling mill practice" by P.I. Polukhin and others. Stal'
22 no.7:633-635 J1 '62. (MIRA 15:7)

1. Magnitogorskiy gorno-metallurgicheskiy institut i
Magnitogorskiy metallurgicheskiy kombinat (for Boyarshinov, Kurdyumova,
Kuprin, Shternov, Shulayev). 2. Vsesoyuznyy nauchno-issledovatel'skiy
i proyektno-konstruktorskiy institut metallurgicheskogo
mashinostroyeniya (for Rokotyan).

(Rolling (Metalwork))

(Polukhin, P.I.)

PHASE I BOOK EXPLOITATION

SOV/6044

RUKOTYAN, Ye. S.
Rokotyan, Ye. S., Doctor of Technical Sciences, Ed.

Prokatnoye proizvodstvo; spravochnik (Rolling Industry; Handbook)
v. 2. Moscow, Metallurgizdat, 1962. 685 p. 8500 copies
printed.

Authors: P. A. Aleksandrov, Doctor of Technical Sciences;
V. P. Anisiforov, Candidate of Technical Sciences; V. I. Bayrakov,
Candidate of Technical Sciences; M. V. Barbarich, Candidate
of Technical Sciences; B. P. Bakhtinov, Candidate of Technical
Sciences [deceased]; B. A. Bryukhanenko, Candidate of Economic
Sciences; M. V. Vasil'chikov, Candidate of Technical Sciences;
A. I. Vitkin, Doctor of Technical Sciences; S. P. Granovskiy,
Candidate of Technical Sciences; P. I. Grudev, Candidate of
Technical Sciences; I. V. Gunin, Engineer; M. Ya. Dzugutov,
Candidate of Technical Sciences; V. G. Drozd, Candidate of
Technical Sciences; N. P. Yermolayev, Engineer; G. M. Katsnel'son,
Candidate of Technical Sciences; M. V. Kovynev, Engineer;
M. Ye. Kugayenko, Engineer; N. V. Litovchenko, Candidate of
Technical Sciences; Yu. M. Matveyev, Candidate of Technical

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Rolling Industry; Handbook

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Sciences; V. I. Meleshko, Candidate of Technical Sciences; N. V. Mekhov, Engineer; A. K. Ninburg, Candidate of Technical Sciences; V. D. Nosov, Engineer; B. I. Panchenko, Engineer; O. A. Plyatskovskiy, Candidate of Technical Sciences; I. S. Pobedin, Candidate of Technical Sciences; I. A. Priymak, Professor, Doctor of Technical Sciences [deceased]; A. A. Protasov, Engineer; M. M. Saf'yan, Candidate of Technical Sciences; N. M. Fedosov, Professor; S. N. Filipov, Engineer [deceased]; I. N. Filippov, Candidate of Technical Sciences; I. A. Fomichev, Doctor of Technical Sciences; M. Yu. Shifrin, Candidate of Technical Sciences; E. R. Shor, Candidate of Technical Sciences; M. M. Shternov, Candidate of Technical Sciences; M. V. Shuralev, Engineer; I. A. Yukhvets, Candidate of Technical Sciences; Eds. of Publishing House: V. M. Gorobinchenko, R. M. Golubchik, and V. A. Rymov; Tech. Ed.: L. V. Dobuzhinskaya.

PURPOSE: This handbook is intended for engineering personnel of metallurgical and machine-building plants, scientific research

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Rolling Industry; Handbook

SOV/6044

institutes, and planning and design organizations. It may also be used by students at schools of higher education.

COVERAGE: Volume 2 of the handbook reviews problems connected with the preparation of metal for rolling, the quality and quality control of rolled products, and designs of roll passes in merchant mills. The following topics are discussed: processes of manufacturing semifinished and finished rolled products (the rolling of blooms, billets, shapes, beams, rails, strips, wire, plates, sheets, and the drawing of steel wire), hot-dipped tin plates, lacquered plates, floor plates, tubes made by different methods, and special types of rolled products. Problems of the organization of rolling operations are reviewed, and types of rolled products manufactured in the USSR are shown. No personalities are mentioned. There are no references.

TABLE OF CONTENTS [Abridged]:

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PHASE I BOOK EXPLOITATION

SOV/5985

Rokotyan, Ye. S., Doctor of Technical Sciences, ed.

Prokatnoye proizvodstvo; spravochnik (Rolling Industry; Handbook) v. 1. Moscow, Metallurgizdat, 1962. 743 p. Errata slip inserted. 9250 copies printed.

Authors of this volume: B. S. Azarenko, Candidate of Technical Sciences; V. D. Afanas'yev, Candidate of Technical Sciences; M. Ya. Brovman, Engineer; M. P. Vavilov, Engineer; A. B. Vernik, Engineer; K. A. Golubkov, Engineer; S. I. Gubkin, Academician, Academy of Sciences BSSR; A. Ye. Gurevich, Engineer; V. I. Davydov, Candidate of Technical Sciences; V. G. Drozd, Engineer; N. F. Yermolayev, Engineer; Ye. A. Zhukovich-Stosha, Engineer; N. M. Kirilin, Candidate of Technical Sciences; M. V. Kovynev, Engineer; A. M. Kogos, Engineer; A. A. Korolev, Professor; M. Ye. Kugayenko, Engineer; A. V. Laskin, Engineer; B. A. Levitanskiy, Engineer; V. M. Lugovskoy, Engineer; I. M. Meyerovich, Candidate of Technical Sciences; M. S. Ovcharov, Engineer; V. I. Pasternak, Engineer; I. L. Perlin, Doctor of Technical Sciences; I. S. Pobedin, Candidate of Technical Sciences; Ye. S. Rokotyan, Doctor of Technical Sciences; M. M. Saf'yan, Candidate of Technical Sciences; V. V. Smirnov, Candidate of Technical Sciences; V. S. Smirnov, Corresponding Member, Academy of Sciences USSR; O. P. Sokolovskiy,

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Rolling Industry; Handbook

Engineer; O. P. Solov'yev, Engineer; M. A. Sidorkevich, Engineer; Ye. M. Trat'yakov, Engineer; I. S. Trishevskiy, Candidate of Technical Sciences; G. N. Khenkin, Engineer; and A. I. Tselikov, Corresponding Member, Academy of Sciences USSR. Introduction: A. I. Tselikov, Corresponding Member, Academy of Sciences USSR; Ye. S. Rokotyan, Doctor of Technical Sciences; and L. S. Al'shevskiy, Candidate of Technical Sciences.

Eds. of Publishing House: V. M. Gorobinchenko, R. M. Golubchik, and V. A. Rymov;
Tech. Ed.: L. V. Dobuzhinskaya.

PURPOSE: This handbook is intended for technical personnel of metallurgical and machine-building plants, scientific research institutes, and planning and design organizations. It may also be useful to students at schools of higher education.

COVERAGE: The fundamentals of plastic deformation of metals are discussed along with the theory of rolling and drawing. Methods of determining the power consumption and the forces in rolling with plane surface or grooved rolls are

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3. Position of the no-slip section and the forward-slip section	73
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BUR'YANOV, Viktor Fomin; ROKOTYAN, Yevgeniy Sergeyevich; GUREVICH, Azriel' Yefimovich; SON'KIN, M.A., red.; KISELEVA, T.I., ATTOPOVICH, M.K., tekhn. red.

[Calculating the power of main drive motors for rolling mills]
Raschet moshchnosti dvigatelei glavnykh privodov prokatnykh
stanov. Moskva, Metallurgizdat, 1962. 360 p. (MIRA 15:6)
(Rolling mills--Electric driving)

PHASE I BOOK EXPLOITATION SOV/5471

Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

Prokatnyye stany. [Sbornik] 1 ([Metal] Rolling Mills. [Collection] 1)
Moscow, 1959. 272 p. 2,000 copies printed.

Sponsoring Agencies: Gosudarstvennyy nauchno-tekhnicheskiiy komitet
Soveta Ministrov SSSR. Akademiya nauk SSSR.

Ed.: Ye. S. Rokotyan, Doctor of Technical Sciences; Tech. Eds.: G. A.
Shevchenko and N. G. Goncharov.

PURPOSE: This collection of articles is intended for technical
personnel in rolling mills, educational institutes, and design
offices.

COVERAGE: The collection contains articles dealing with the present
status of methods used in metal rolling. Attention is given to
the design and operation of sheet and planetary mills, electric
drives of equipment used in rolling shops, and instruments for

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[Metal] Rolling Mills (Cont.)

SOV/5471

measuring metal-rolling process parameters. D. P. Morozov, Doctor of Technical Sciences, and I. S. Pobedin, Candidate of Technical Sciences, edited some parts of the book. References accompany each article. There are 131 references, Soviet and non-Soviet.

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2. Bur'yanov, V. F. [Candidate of Technical Sciences]. Planetary Mills	79
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[Metal] Rolling Mills (Cont.)

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4. Zhuravskiy, Yu. V. [Candidate of Technical Sciences]. Electric Equipment for the Auxiliary Mechanisms of Rolling Mills 187
5. Meyerovich, I. M. [Candidate of Technical Sciences]. Instruments for Measuring the Force Parameters of Rolling Mills 217

AVAILABLE: Library of Congress (TS340.M67)

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VK/wrc/jw
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S/137/60/000/011/012/043
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No.11, p.115, # 26122

AUTHOR: Rokotyan, Ye.S.

TITLE: On the Occasion of Yu.M. Chizhikov's Statement

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem. dostizh. prokatn. proiz-va", Volume 2, Leningrad, 1959, p. 434

TEXT: The modern theory of rolling permits the evaluation of the magnitude of metal pressure on the rolls, according to formulae which are based on the mathematical theory of plasticity. This means the taking into account of a series of factors, whose effect is different in individual cases. External friction during rolling on a blooming mill plays a slight part and changes specific pressure, referred to σ_s , by 10 - 15%.

L.M.

Translator's note: This is the full translation of the original Russian abstract.

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SOV/137-59-5-11207

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 243 (USSR)

AUTHOR: Rokotyan, Ye.S.

TITLE: The Action of Force in Roughing and Sheet Rolling Mills¹⁴

PERIODICAL: V sb.: Vopr. obrabotki metallov davleniyem, Moscow, AS USSR, 1958, pp 46 - 72

ABSTRACT: Investigations were performed to determine the pressure of the metal on the rollers, the moment of rolling and the RMS current of the motor. Resistance wire pick-ups were used to measure the pressure and the torque. In a number of cases the pick-ups were glued onto the rolling mill frame. Calibration was carried out with the use of a hydraulic jack placed between the operating or the supporting rollers. The pressure of the metal on the rollers was determined by a universal dynamometer where the measuring part was combined with the calibrating device. A series of theoretical formulae were verified experimentally. A general

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30V/137-59-5-11207

The Action of Force in Roughing and Sheet Rolling Mills

method is suggested to calculate the mean specific pressure of the metal on the rollers. A formula is presented to determine the torque in cold rolling of sheets. As a result of analyzing the experimental data a series of factors was revealed, necessary for the theoretical calculation of force parameters in rolling. ✓

Yu.M.

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ADRIANOVA, V.P.; ANDREYEV, T.V.; ARANOVICH, M.S.; BARSKIY, B.S.; GROMOV, N.P.;
GUREVICH, B.Ye.; DVORIN, S.S.; YERMOLAYEV, N.F.; ZVOLINSKIY, I.S.;
KABLUKOVSKIY, A.F.; KAPELOVICH, A.P.; KASHCHENKO, D.S.; KLIMOVITSKIY,
M.D.; KOLOSOV, M.I.; KOROLEV, A.A.; KOCHINEV, Ye.V.; LESKOV, A.V.;
LIVSHITS, M.A.; MATYUSHINA, N.V.; MOROZOV, A.N.; POLUKAROV, D.I.;
RAVDEL', P.G.; ROKOTYAN, Ye.S.; SMOLYARENKO, D.A.; SOKOLOV, A.N.;
USHKIN, I.N.; SHAPIRO, B.S.; EPSHTEYN, Z.D.; AVRUTSKAYA, R.F., red.
izd-va; KARASEV, A.I., tekhn.red.

[Brief handbook on metallurgy, 1960] Kratkii spravochnik metallur-
ga, 1960. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i
tsvetnoi metallurgii, 1960. 369 p. (MIRA 13:7)
(Metallurgy)

ROKOTYAN, Y. S., kand. tekhn. nauk

Power consumption in continuous sheet rolling. Obr. net. davl.
no. 3:86-10⁴ '54. (MIRA 12:10)

1. Tsentral'noye konstruktorskoye byuro metallurgicheskogo
mashinostroyeniya i Tsentral'nyy nauchno-issledovatel'skiy institut
tekhnologii i mashinostroyeniya.
(Rolling mills--Electric driving)

GUREVICH, A.Ye.; ROKOTYAN, Ye.S.

Power consumption in cold rolling of steel and nonferrous metals.
Obr.net.davl. no.2:147-154 '53. (MIRA 12:10)

1. TSentral'noye konstruktorskoye byuro metallurgicheskogo mashino-
stroyeniya in TSentral'nyy nauchno-issledovatel'skiy institut
tekhnologii mashinostroyeniya.

(Rolling mills--Electric driving)
(Friction)

Rok. Tyan, Y. S.

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PHASE I BOOK EXPLOITATION

SOV/2316

Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii

Metallurgiya SSSR, 1917-1957; [t.] II (Metallurgy in the USSR, 1917 - 1957; Vol 2) Moscow, Metallurgizdat, 1959. 813 p. Errata slip inserted. 3,000 copies printed.

Ed. (Title page): I. P. Bardin, Academician; Ed. (Inside book): G. V. Popova; Tech. Ed.: P. G. Islent'yeva.

PURPOSE: This book is intended for metallurgists.

COVERAGE: The articles in this collection present historical data on the achievements of Soviet metallurgy, both ferrous and nonferrous, during the period 1917-1957. Advances in theory and practical application are thoroughly discussed. Many of the articles describe the present status of individual branches of metallurgy and give an idea of what may be expected in the future. Advances made in other countries are also discussed. The articles are accompanied by a large number of references. For further coverage, see Table of Contents.

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Metallurgy in the USSR (Cont.)

TABLE OF CONTENTS:

Tselikov, A. I., Corresponding Member, USSR Academy of Sciences; Ye. S. Rokotyan, Doctor of Technical Sciences; N. P. Gromov, Candidate of Technical Sciences. (Ts NIIMASH and TsNIICHM) Production of Rolled Stock 3

The authors present a historical review of the production of rolled stock in czarist Russia and the Soviet Union from 1721 to 1957. Developments in rolling technique and in the design of rolling mills for various purposes are discussed.

Yermolayev, N. F., Engineer; and P. K. Teterin, Candidate of Technical Sciences. (TsNIICHM) Production of Steel Tubes 38

The article briefly outlines the history of steel-tube production in the USSR (beginning in 1893) and in other countries. The main methods of manufacturing seamless and welded steel tubular products at various Soviet and non-Soviet plants are described. There is some discussion of equipment.

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Metallurgy in the USSR (Cont.)

Pavlov, I. M., Corresponding Member, USSR Academy of Sciences, Professor, Doctor of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Scientific Study of the Rolling Process

56

This article is an extensive survey of scientific writings on the rolling process published in various countries including the USSR since 1859. The writings deal with historical development, friction between rolls and metal, force and power relations, deformation, high-speed rolling, and special methods of rolling.

Bardin, I. P., Academician; and L. L. Pinkhusovich, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) The Rail Problem

82

Historical information on the development of engineering standards for the acceptance of rails and on the amount of rails manufactured by openhearth, Bessemer, and Thomas processes is presented. Changes in weight and types of rails, improvements in quality and technique (e.g., quenching from rolling temperature and after reheating, use of alloy steel, etc.) are pointed out. Measures taken for further improvement and elimination of defects are mentioned.

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Metallurgy in the USSR (Cont.)

Pinkhusovich, Candidate of Technical Sciences; and A. G. Nikonov, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Achievements in Railroad Wheel and Tire Production 101

Changes in engineering specifications and improvements in production techniques and quality of tires and solid wheels in the USSR since 1940 are discussed. Further progress in this field is predicted.

Zimin, A. I., Professor, Doctor of Technical Sciences. (MFTU) Forging and Stamping Methods 113

This is a historical survey of developments in forging and stamping processes in Russia from prerevolutionary times up to 1957.

Levi, L. I. Candidate of Technical Sciences. (Moscow Institute of Machine Design) Production of Castings 141

The paper traces the general course of development and discusses problems in the theory of casting, casting alloys, basic melting processes, molding and core materials, nonmetallic molds, special casting methods (permanent mold casting, die casting, continuous

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Metallurgy in the USSR (Cont.)

casting, centrifugal casting, investment casting, etc.), equipment, mechanization, and automation.

Bal'shin, M. Yu., Candidate of Technical Sciences; and G. V. Samsonov, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences; and Institute of Powder Metallurgy, Ukrainian Academy of Sciences) Powder Metallurgy 175

The article is a general survey of the development and present state of powder metallurgy in the USSR. Theoretical and practical aspects of the preparation of cemented and sintered metal products are discussed.

Rykalin, N. N., Corresponding Member, USSR Academy of Sciences; N. O. Okerblom, Professor, Doctor of Technical Sciences; A. A. Yerokhin, Candidate of Technical Sciences; and M. Kh. Shorshorov, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences; and Leningrad Polytechnic Institute) Progress in the Science of Welding Metals in the USSR 194

The authors discuss the studies that have been made in the USSR of the theoretical aspects of welding, beginning in the latter part of the nineteenth century. Specific topics are: investigation of the arc, Card 5/15

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Metallurgy in the USSR (Cont.)

theory of welding deformations and stresses, calculation methods used in planning the industrial production of welded structures, and the theory of strength of welded structures.

Kidin, I. N., Professor, Doctor of Technical Sciences. (Moscow Institute of Steel) Use of High Frequency Currents in Physical Metallurgy 216

The author discusses the following: types of phase transformations occurring during rapid heating; the magnetic theory of the kinetics of induction heating; interconnection between original structure, steel composition, and the kinetics of heating; structure of austenite formed during induction heating; transformation of austenite into martensite and tempering after high-frequency hardening; ways of improving the technology of induction heat treatment; regimes of induction hardening; and application of induction heating in carburizing.

Gulyayev, A. P., Professor, Doctor of Technical Sciences. (Moscow Evening Institute of Machine Design) Heat Treatment and Thermochemical Treatment of Steel 239

After giving a classification of the types of heat-treating processes, the

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Metallurgy in the USSR (Cont.)

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author discusses the thermodynamics, mechanism, and kinetics of phase changes, as well as the formation, decomposition, and transformation of austenite. The concluding section deals with diffusion processes.

Golosman, Kh. M., Engineer. (Stal'proyekt) Heating and Heat-treating Furnaces in USSR Ferrous Metallurgy

272

This is a brief historical review of successive developments in the theory and design of various types of heating and reheating furnaces from czarist times up to 1957.

Ivantsov, G. P., Candidate of Technical Sciences. (TsNIIChM) Theory of Fuel-fired Furnaces

304

The article presents a review of developments in the theory and design of fuel-fired furnaces (mainly open-hearth) from 1905 to 1957, emphasizing the need for refining the theory on the basis of model testing.

Lukashevich-Dubanova, Yu. T., Doctor of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Investigation of Nonmetallic Inclusions

324

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Metallurgy in the USSR (Cont.)

Various methods (metallographic, chemical, vacuum melting, etc.) for determining and removing nonmetallic inclusions and occluded gases are described. Results of investigations are discussed.

Svet, D. Ya., Doctor of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Direct-reading Radiation Pyrometry of Liquid Metals in the USSR 342

The author outlines the development of pyrometric methods in the USSR and then discusses specific questions of direct-reading radiation pyrometry (electronic systems used, investigation of emissive capacity of metal baths, direct-reading methods of controlling the temperature of metallurgical processes, calibration of systems for color pyrometry, and measurement of actual temperatures in metallurgy by radiation pyrometry).

Mirkin, I. L., Professor, Doctor of Technical Sciences. (TsNITMASH) 379
Development of Physical Metallurgy in the Soviet Union

The paper reviews the development of physical metallurgy in Russia and other countries during the nineteenth and twentieth centuries, tracing successive advances made in various branches of the science.

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Metallurgy in the USSR (Cont.)

Arkharov, V. I., Professor, Doctor of Technical Sciences; and Vonsovski, S. V., Corresponding Member, USSR Academy of Sciences. (UFAN) Present 406
State of the Physics of Metals

The authors define the subject matter of metallophysics, discussing the basic concepts of the quantum (electron) theory of metals and their "electronic" properties. In the second of the two major divisions of the article the authors discuss the contributions of Soviet scientists in various branches of this field.

Kornilov, I. I., Doctor of Chemical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Chemistry of Metals in the USSR 440

An account is given of the development of metallochemistry in Russia before and after the Revolution. Work done in specific fields (study of constitution diagrams, intermetallic compounds, and solid solutions) is discussed. The authors conclude by giving their views of the prospects for growth in the field of metallochemistry in the USSR.

Lozinskiy, M. G., Doctor of Technical Sciences. (Institute of Machine Engineering, USSR Academy of Sciences) New Instruments and Methods for High-temperature Vacuum Metallography 478
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SOV/2316

Metallurgy in the USSR (Cont.)

This article gives a description of two devices for the metallographic investigation of heated specimens (above 900° C) developed in recent years at the Institute of Machine Engineering, USSR Academy of Sciences. With the first device, designated IMASH-5M, the specimen can be simultaneously studied with respect to its microstructure and the deformation process while in a heated condition and under vacuum; the second device, IMASH-6, is intended for determining the temperature dependence of the modulus of elasticity and of internal friction in metals. In addition, the article describes an instrument for studying the rate of vaporization in metals.

Oshchepkov, P. K., Doctor of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) The Problem of Using Penetrating Radiation in Metallurgy

The following topics are discussed: development of betatron gamma-ray flaw detection; use of betatrons for activation analysis; development of remote vision in metals; mass-spectrometric methods of analysis; application of ultrasonic image converters in metallurgy; development of new methods of recording weak radiation currents.

Card 10/15

Isotopes in the Study

Radioactive isotopes for studying the characteristics. In addition, the article discusses the use of grain and thermodynamic characteristics of solutions, grain boundaries, and the grain boundaries, and

Ignatov, D. V.
Card 11/15

APPROVED FOR RELEASE: 06/20/2000

Metallurgy in the USSR (Cont.)

SOV/2316

of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Structural and Kinetic Studies of the Mechanism of Oxidation of Metals and Alloys

This is a historical survey of investigations which have been conducted in this field both in Russia and other countries from the eighteenth century to the present. The author discusses investigations dealing with the oxidation mechanism at low and high temperatures and with theoretical studies in the field.

Davidenkov, N. N., Academician, UkrSSR. (Leningrad Physicotechnical Institute, USSR Academy of Sciences) Studies in the Strength of Metals

The author reviews Soviet works in this field, some dealing with the properties of single crystals, others with polycrystalline specimens.

Kornilov, I. I., Professor, Doctor of Chemical Sciences; and L. I. Pryakhina, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences)

Metallurgy in the USSR (Cont.)

SOV/2316

This is a general survey of Soviet works in the field of creep-resistant alloys. The works deal with test methods, development of new high-temperature alloys, and theoretical investigation.

Bernshteyn, M. L., Candidate of Technical Sciences. (Moscow Institute of Steel) Creep-resistant Alloys

683

The author describes Soviet achievements in the development of high-temperature alloys from the post-Revolution reconstruction period up to 1957. Future prospects are indicated.

Rozenfel'd, I. L., Professor, Doctor of Chemical Sciences. (Institute of Physical Chemistry, USSR Academy of Sciences) Studies in the Corrosion of Metals

714

This paper reviews the most important works on corrosion of metals published between 1917 and 1957. All aspects of the subject (questions of theory, passivity, corrosion-resistant alloys, corrosion under specific conditions, protective films, etc.) are included.

Card 13/15

Metallurgy in the USSR (Cont.)

SOV/2316

Gudtsov, N. T., Academician (Deceased); and Mashtakova, L. D., Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Production of High-strength Low-alloy Steel

749

The article reviews progress made in the Soviet Union and in other countries in the production of low-alloy steels.

Belov, A. F., Engineer. (State Committee on Aircraft Production Technology) Production of Light Alloys

770

The author describes successive advances made in the production of light alloys. All aspects are covered, including, besides the production of the alloys themselves, the teeming of ingots and the production of castings, sheet, extruded articles and forgings. Heat treatment is also discussed.

Kestner, O. Ye., Candidate of Technical Sciences. (VIAM) Heavy Nonferrous Alloys

796

Card 14/15

Metallurgy in the USSR (Cont.)

SOV/2316

Soviet accomplishments in the production of bronzes, brasses, nickel alloys, zinc alloys, bearing alloys, solders, heat-resistant alloys of high electrical conductivity, etc., are reviewed.

AVAILABLE: Library of Congress

Card 15/15

GO/mg
10-27-59

TSELIKOV, A.I.; ROKOTYAN, Ye.S., doktor tekhn.nauk; SHOR, E.R., kand.
tekhn.nauk

New techniques in rolling. Metallurg 4 no.3:23-26 Mr '59.

(MIRA 12:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i
mashinostroyeniya. Chlen-korrespondent AN SSSR (for TSelikov).
(Rolling (Metalwork))

SOV/137-57-6-9899

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 83 (USSR)

AUTHORS: Rokotyan, Ye.S., Meyerovich, I.M., Zhuravskiy, Yu. V.

TITLE: An Investigation of the Auxiliary Mechanisms of the 1000 Blooming Mill (Issledovaniye vspomogatel'nykh mekhanizmov bluminga 1000)

PERIODICAL: V sb.: Prokat. stany. Nr 6. Moscow, Mashgiz, 1956, pp 74-123

ABSTRACT: An investigation is made of the auxiliary mechanisms of the 1000 blooming mill: The ingot buggy, the ingot turner, the mill tables, the manipulator, and the transfer - at one of the southern plants of the Soviet Union. Oscillographic recording of the work of the electric drives determines the primary power characteristics of the mechanisms being investigated, monitors the correctness of the choice of power for the electric drives, and reveals the true work done by the mechanisms. Determination of stresses in the individual units of the mechanisms is performed by means of wire strain gages. Exhaustive data useful to designers at heavy machinery plants in planning similar mechanisms and to personnel of metallurgical plants in utilizing the equipment are presented.

Card 1/1

B.Ye.

ROKOTYAN, Ye.S.

GELEI, Shander, [Geleji, Sander],; POBEDIN, I.S., kand. tekhn. nauk,
[translator],; MEYEROVICH, I.M., kand. tekhn. nauk, [translator],;
ROKOTYAN, Ye.S., doktor tekhn. nauk, red.; BERLIN, Ye.N., red. izd-va.,;
ISLINT'YEVA, P.G., tekhn. red.

[Calculations of forces and power requirements for the plastic
deformation of metals] Raschet usilii i energii pri plasticheskei
deformatsii metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry
po chernoi i tsvetnoi metallurgii, 1958. 419 p. [Translated from
the Hungarian]. (MIRA 11:11)

(Metalwerk)

BEL'SKIY, B.M. [deceased]; BUR'YANOV, V.F.; VASIL'YEV, Ye.P.; VITKINA, M.I.;
GAILLAY, Ya.S.; LEVIN, G.I.; MATVEYEV, Yu.M.; CHELYUSTKIN, A.B.;
ROKOTYAN, Ye.S., red.; ISTOMIN, A.B., red.; GEUZIL, V.I., red.;
NEPOMNYASHCHIY, N.I., red. izd-va; KARASEV, A.I., tekhn. red.

[Ferrous metallurgy in capitalistic countries] Chernaia metallurgiya
kapitalisticheskikh stran. Pt.4. [Rolling mill production] Prokatnoe
i trubnoe proizvodstvo. Bel'skii, B.M. and others. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii.
1958. 627 p. (MIRA 11:7)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.

(Forging) (Rolling (Metalwork)) (Pipe, Steel)

ROKOTYAN, Ye. S.

PHASE I BOOK EXPLOITATION

967

Akademiya nauk SSSR. Institut mashinovedeniya. Laboratoriya obrabotki metallov davleniyem

Voprosy obrabotki metallov davleniyem (Problems of Metal Forming) Moscow, Izd-vo AN SSSR, 1958. 85 p. 4,500 copies printed.

Resp. Ed.: Tselikov, A.I., Corresponding Member, USSR Academy of Sciences;
Ed. of Publishing House: Bankvitser, A.L.; Tech. Ed.: Guseva, I.N.

PURPOSE: This book is intended for scientific research workers and designers in the field of metal forming.

COVERAGE: This book contains 4 articles which discuss various theoretical aspects of metal forming, such as the theory of sheet-metal forming (drawing), the experimental design of complex drawing dies, and data on research work for determining the actual magnitude and character of forces in rolling of metals to achieve maximum utilization of power and reduction of weight of existing rolling equipment and of new machinery under construction.

Card 1/2

Problems of Metal Forming

967

TABLE OF CONTENTS:

Tomlenov, A.D. The Plastic State of Stress and the Stability of the Process of Drawing Parts Having a Complex Configuration 3

Serep'yev, V.V. Effect of the Tongue-and-groove Clamping on the Process of Forming of Parts During Drawing 24

Rokotyan, Ye.S., Professor, Doctor of Technical Sciences . Forces Acting in Roughing and in Sheet Mills 46

Tselikov, A.I. and Ritman, R.I. Fundamentals of Planetary Rolling-mill Design 73

AVAILABLE: Library of Congress

GO/fal

1-8-59

Card 2/2

Roketyan, Ye. S.

137-1957-12-23630

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 112 (USSR)

AUTHOR: Roketyan, Ye. S.

TITLE: Investigation of a Reversible Mill for Cold-rolling of a Steel Strip
(Issledovaniye reversivnogo stana dlya kholodnoy prokatki stal'noy lenty)

PERIODICAL: V sb.: Prokatn. stany. Nr 8. Moscow, Mashgiz, 1956, pp148-171

ABSTRACT: The pressure (P), the consumption of energy, and the productivity were determined for the rolling of a steel strip in a quadruple mill equipped with rolls 460 mm long and 220 mm in diameter; the diameter of the supporting rolls is 500 mm. The operating rolls are powered by a 400 hp d.c. motor, and the reeling unit is driven by a 100 hp motor. The maximum width of the strip (S) is 250 mm, with a reduction from 2.5 - 3.5 mm to 1.0; 0.7; 0.5; 0.4 mm; the reduction for C-steel is 22-25 percent per pass, and 12-18 percent for high-carbon and special steels. Hsh of the rolls is 92-94. The P of the metal against the rolls was registered by wire gages attached to the housing of the operating stand. The energy consumption, torque, and tension in the S were computed from recordings of the amperage, voltage and rpm

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137-1957-12-23630

Investigation of a Reversible Mill for Cold-rolling of a Steel Strip

of the electric motor. The pressure permissible on the rolls is 650 t (limited by the strength of the supporting rolls) whereas 350 t are permitted on the bearings; graphs were plotted showing the dependence of the specific pressure and of the deformation of rolls on the ratio h/D expressed in percent. During the rolling of high-carbon alloyed steel the P is four or more times greater than it is during the rolling of low-carbon steel. If R_{perm} is assumed to be 350 t, the ratio R_{roll}/R_{perm} will vary between 14-65 percent, which indicates that the strength of the mill is utilized but to a small extent. Knowing the ratio h/D and the length of the arc of grip l , and utilizing the graphs obtained, the length of the arc of deformation l_d , the specific P , and the full P may be readily determined. For the purposes of comparison, computational and actual curves are presented. The discrepancy between the theoretical and the experimental data does not exceed 15 percent. The increase in the length of the arc of grip attains a value of 1.8 during the rolling of low-carbon steel, and 2.1 - 2.3 in the rolling of alloyed steel. Experimental curves, showing dependence of the consumption of energy on the thickness of the strip, are given. The tension in the front is greater than the tension in the rear and

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137-1957-12-23630

Investigation of a Reversible Mill for Cold-rolling of a Steel Strip

does not exceed 13 percent of σ_s . It is recommended that the tension be increased two-fold. The operation of the electric motor is analyzed in terms of the root-mean-square values of the current. The operating velocities of the mill cover a wide range (300-800 rpm) which corresponds to rolling velocities from 1.57 to 4.2 m/sec. Novel technological methods of rolling have been developed and the number of passes has been reduced to two. The content of the emulsifying agent in the emulsion was raised from 5 to 12 percent which resulted in a reduced P. The barrel of the rolls was increased from 0.13 to 0.22 mm. The productivity of the mill rose from 15 to 25 percent. Accelerated starting and braking may increase the productivity even more.

D. M.

1. Rolling mills-Reversible-Application Methods
2. Steel-Cold rolling-

Card 3/3

ROKOTYAN, Ye. S., MEYEROVICH, I. M., Candidates of Tech. Sciences; ALEKSANDROV, A. A., Prof.;
SAKHAROV, A. I. Docent; STUKALOV, M. I., Engr.; YASHCHENKO, V. A., Engr.;
DOLMATOV, F. M., Engr.;

"Investigation of Power and Strength Characteristics of Blooming Mills to
Obtain Maximum Output Capacity," Rolling Mills: Studies, Calculation, De-
sign and Operation, No. 8, Moscow, Mashgiz, 1956. 258 p.

Articles by Rokotyan, Ye. S., Meyerovich, I. M. and others describe results
of experiments conducted on blooming, cold-rolling, duralumin-dressing, and
car wheel rolling mills.

ROKOTYAN, Ye. S., (Cand. of Tech. Sciences)

"Reversible Cold-Rolling Mills," Rolling Mills; Studies, Calculation,
Design and Operation, No. 8, Moscow, Mashgiz, 1956. 258 p. (p. 48)

ROKOTYAN, Ye. S.

ROKOTYAN, Ye. S., kandidat tekhnicheskikh nauk; MEYEROVICH, I.M., kandidat tekhnicheskikh nauk; ALEKSANDROV, A.A., professor; SAKHAROV, A.I., dotsent; STUKALOV, M.I., inzhener; YASHCHENKO, V.A., inzhener; DOLMATOV, F.M., inzhener.

Improving the performance of blooming mills by determining potentialities in factors of strength and power of the equipment.
[Trudy] TSNITMASH no.33:134-147 '56. (MLRA 10:9)
(Rolling mills) (Mechanics)

ROKOTYAN, Ye. S., Kandidat tekhnicheskikh nauk.

...ating reversing mills for cold rolling of steel strips.
TSNIITMASH no. 83:143-173-86 (MLRA 10:9)
(Rolling mills)

ROKOTYAN, Yevgeniy Sergeyevich

GUREVICH, Azriyel' Yefimovich; ROKOTYAN, Yevgeniy Sergeyevich; AFANAS'YEV, V.D., redaktor; POREDIN, I.S., redaktor; GORDON, L.M., redaktor izdatel'stva; BERLOV, A.P., tekhnicheskii redaktor.

[Methods for investigating rolling mills] Metody issledovaniia prokatnykh stanov. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 494 p. (MIRA 10:6)
(Rolling mills)

ROKOTYAN, Ye.S., kandidat tekhnicheskikh nauk; MEYEROVICH, I.M., kandidat tekhnicheskikh nauk; ZHURAVSKIY, Yu.V., kandidat tekhnicheskikh nauk.

Study of the auxiliary equipment of a 1000 blooming mill. [Trudy]
TSNIITMASH no.78:74-123 '56. (MLRA 10:1)
(Rolling mills)

ROKOTYAN, Ye.S., kandidat tekhnicheskikh nauk.

Continuous rolling. Nauka i zhizn' 23 no.8:12-16 Ag '56.
(Rolling (Metalwork)) (MIRA 9:9)

ROKOTYAN, Ye. S., kandidat tekhnicheskikh nauk; MEYEROVICH, I.M., kandidat tekhnicheskikh nauk.

Measuring the metal pressure on rollers by a universal dynamometer.
Vest.mash. 36 no.5:10-12 My '56. (MLBA 9:8)
(Rolling (Metalwork)) (Dynamometer)

AID P - 5076

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 5/26

Authors : Rokotyan, Ye. S., and I. M. Meyerovich, Kandidats
Tech. Sci.

Title : Measuring the pressure of metal on rollers by means of
a universal dynamometer.

Periodical : Vest. mash., 5, 10-12, My 1956

Abstract : The authors describe a new method, developed in the
Central Scientific Research Institute of Technology and
Machine Building, for measuring pressures in rolling
mills. The universal dynamometer is composed of an
electric transmitter and calibrating gauge. This
dynamometer compares favorably with other dynamometers,
the defects of which are pointed out. The advantages
of the new type dynamometer are emphasized. 2 diagrams.

Institution : None

Submitted : No date

ROKOTYAN, Ye.S., kandidat tekhnicheskikh nauk.

Study of rolling mills with the purpose of increasing their
productivity. [Trudy] MVTU no.62:127-166 '55. (MLRA 9:7)
(Rolling mills)

AID P - 4323

Subject : USA/Engineering

Card 1/2 Pub. 128 - 23/26

Author : Rokotyan, Ye. S., Kand. Tech. Sci.

Title : Foreign rolling mills

Periodical : Vest. mash., #3, p. 76-82, Mr 1956

Abstract : The latest technological trends and advances, especially in the U.S.A. in the design and operation of various rolling mills are outlined. The following features are emphasized: continuous rolling processes, greater speed in rolling, increased size and weight of rolled blooms and slabs, linearity of rolling stands, increased cold rolling and increased production of sheets and plates. Described are the following type of rolling mills: blooming and slabbing, billet and bar, and section, sheet, pipe and tube-rolling. Diagrams, photo.

AID P - 4323

Vest. mash., #3, p. 76-82, Mr 1956

Card 2/2 Pub. 128 - 23/26

Institution : None

Submitted : No date

ROKOTYAN, Ye.S., doktor tekhn.nauk, red. Prinimali uchastiye: MOROZOV,
D.P., doktor tekhn.nauk, red.; POBEDIN, I.S., kend.tekhn.nauk,
red. ~~SHVCHENKO~~, G.A., tekhn.red.; GONCHAROV, N.G., tekhn.red.

[Rolling mills] Prokatnye stany. Pod red. E.S.Rokotiana.
Moskva. Vol.1. 1959. 272 p. (MIRA 14:3)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii.
(Rolling mills)

ZAVCHIK, Kopylov, Borisovich, inzh., TEBENT'YEV, Georgiy Borisovich,
kand. tekhn. nauk, REKOV, A.I., kand. tekhn. nauk,
retsensent, SLUCHAK, L.V., inzh., retsensent, KAMENSKIY,
Ye.V., nauchn. red., KUSKOVA, A.I., red.

[Seagoing fishing boats] Morskoe rybnopromyshlennye suda.
Leningrad, Sudostroenie, 1966. 371 p. (MIRA 18:10)

KURSHEV, Iv.; IVANOV, D.G.; ROKOV, (h.I.); ANDONOV, G.V.

Preparing ammonium chloride by heating a mixture of hard ammonium sulfate and hard potassium chloride. Khim i industriia 36 no.7: 247-250 '64.

1. Chemical and Technological Institute, Sofia (for Kurshev and Ivanov).

ROKOVA, Ye. [Rakava, E.]; RAPAPORT, F.

Teach your children to love music. Rab. 1 sial. 35 no.9:23 S '59.
(MIRA 12:12)

(Music--Instruction and study)

VANAG, Ya. [Vanags, J.]; DZERVE, P.; KAUGUR, K. [Kaugurs, K.]; LATSIS, R.
[Lacis, R.]; ROKPELNIS, F.; RUNTSIS, A. [Runcis, A.]; STARODUBSKIY, L.;
PLOTKE, I., red.; SILIN', V. [Silins, V.], tekhn. red.

[Fifteen years of Soviet Latvia, 1940-1955] 15 let Sovetskoi Latvii,
1940-1955. Sost. i avtory tekstov: IA. Vanag i dr. Red. I. Flatke.
Riga, Latvinskoe gos. izd-vo, 1955. 1 v. (MIRA 15:12)
(Latvia--Views)

ROKSENBLYUM, V. I.

ROKSENBLYUM, V. I.

ROKSENBLYUM, V. I.: "Investigation of the stability of the shanks of turbine blades using the method of limiting loads." Min Heavy Machine-building USSR. Central Sci Res and Planning-Design Boiler and Turbine Inst imeni I. I. Polzunov (TsKTI). Leningrad, 1956.
(Dissertation for the degree of doctor in Technical Sciences.)

SO: Knizhnaya let opis', No 36, 1956, Moscow.

ROKSHAIN, D.R.

Typological characteristics of Mycobacterium tuberculosis in
various forms of tuberculosis in the Buriat A.S.S.R. Probl.
tub. no.8:86-91 '61. (MIRA 15:5)

1. Iz Respublikanskogo protivotuberkuleznogo dispansera Buryat..
skoy ASSR (glavnyy vrach P.T. Yashinov).
(BURYAT-MONGOLIA--MYCOBACTERIUM TUBERCULOSIS)

ROKSHAIN, D.R.

Tuberculosis of the peripheral lymph nodes in the Buryat Republic. Probl.tub. 39 no.1:62-69 '61. (MIRA 14:1)

1. Iz Respublikanskogo protivotuberkuleznogo dispansera Buryatskoy ASSR (glavnyy vrach P.T. Yazhinov) i Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdoravookhraneniya RSFSR (dir. - kand.med.nauk V.F. Chernyshev, zam. dir. po nauchnoy chasti - prof. D.D. Aseyev, nauchnyy rukovoditel' kand.med.nauk Yu.P. Korovina).

(BURYAT-MONGOLIA-LYMPHATICS-TUBERCULOSIS)